# Debug information

The **Debug** perspective lets you manage the debugging or running of a program in the Workbench. You can control the execution of your program by setting breakpoints, suspending launched programs, stepping through your code, and examining the contents of variables.

 The **Debug** perspective displays the following information:

* The stack frame for the suspended threads for each target that you are debugging
* Each thread in your program represented as a node in the tree
* The process for each program that you are running

The **Debug** perspective also drives the **C/C++ Editor**. As you step through your program, the **C/C++ Editor** highlights the location of the execution pointer.

## Variables

You can view information about the variables in a selected stack frame in the Variables view. When execution stops, the changed values are by default highlighted in red. Like the other debug-related views, the Variables view does not refresh as you run your executable. A refresh occurs when execution stops.

## Expressions

An expression is a snippet of code that can be evaluated to produce a result. The context for an expression depends on the particular debug model. Some expressions may need to be evaluated at a specific location in the program so that the variables can be referenced. You can view information about expressions in the Expressions view.

## Registers

You can view information about the registers in a selected stack frame. Values that have changed are highlighted in the Registers view when your program stops.

## Memory

You can inspect and change your process memory.

## Disassembly

You can view disassembled code mixed with source information.

## Modules

You can view information about the modules (executables and shared libraries) loaded in the current debug session.

## Signals

You can view the signals defined on the selected debug target and how the debugger handles each one.



[Overview of the CDT](http://docs.google.com/cdt_c_over_cdt.htm)

[Debug overview](http://docs.google.com/cdt_c_over_dbg.htm)



[Debugging](http://docs.google.com/tasks/cdt_o_debug.htm)



[Run and Debug dialog box](http://docs.google.com/reference/cdt_o_run_dbg_pages.htm)

[Debug views](http://docs.google.com/reference/cdt_o_dbg_view.htm)

